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PTO/SB/08A (08-00)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

2

Of

12

**Complete if Known**

Application Number

10/777,978

Filing Date

February 12, 2004

First Named Inventor

**Stephen L. Manley**

Group Art Unit

2161

Examiner Name

**Leroux, Etienne Pierre**

Attorney Docket Number

112056-0138U

## U.S. PATENT DOCUMENTS

[illegible]

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## FOREIGN PATENT DOCUMENTS

[illegible]

Examiner  
Signature

/Etienne Leroux/

Date Considered

09/15/2008

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/777,978
		Filing Date	February 12, 2004
		First Named Inventor	Stephen L. Manley
		Art Unit	2161
		Examiner Name	Leroux, Etienne Pierre
		Attorney Docket Number	112056-0138U
Sheet	3	of	12

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Name of Patentee or Applicant of Cited Document	Publication Date MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
	23	Re. 34,100		Hartness	10-13-1992	
	24	4,156,907		Rawlings, et al.	05-29-1979	
	25	4,399,503		Hawley	08-16-1983	
	26	4,598,357		Swenson et al.	07-01-1986	
	27	4,688,221		Nakamura et al.	08-18-1987	
	28	4,698,808		Ishii	10-06-1987	
	29	4,761,785	B1	Clark et al.	08-02-1988	
	30	4,805,090		Coogan	02-14-1989	
	31	4,837,675		Bean et al.	06-06-1989	
	32	4,864,497		Lowry et al.	09-05-1989	
	33	4,896,259		Jacobs et al.	01-23-1990	
	34	4,899,342		Potter et al.	02-06-1990	
	35	4,989,206		Dunphy, Jr. et al.	01-29-1991	
	36	5,124,987		Milligan et al.	06-23-1992	
	37	5,155,835		Belsan	10-13-1992	
	38	5,426,747		Weinreb et al.	06-20-1995	
	39	5,581,724		Belsan et al.	12-03-1996	
	40	5,819,292		Hiltz et al.	10-06-1998	
	41	6,636,879	B1	Doucette et al.	10-21-2003	
	42	6,643,654		Patel et al.	11-04-2003	
	43	2004/0030668	A1	Pawlowski	02-12-2004	
	44	2005/0246401	A1	Edwards et al.	11-03-2005	
	45	5,568,629		Gentry et al.	10-22-1996	

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)					
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Examiner Signature	/Etienne Leroux/	Date Considered	09/15/2008
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	5	of	12	Application Number	10/777,978
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## Complete if Known

Application Number	10/777,978
Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
Attorney Docket Number	112056-0138U

## NON PATENT LITERATURE DOCUMENTS

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	50	Administration Guide found at <a href="http://www.openafs.org/pages/doc/AdminGuide/auand010.htm">http://www.openafs.org/pages/doc/AdminGuide/auand010.htm</a> , visited on 3/2/2005	
	51	BASILICO, ET AL., <i>Error Correction System Using "Shadow Memory"</i> , IBM Technical Disclosure Bulletin, May 1984, pp. 5792-5793	
	52	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 <sup>th</sup> VLDB Conference, LA, CA (1988)	
	53	BLASGEN, M.W. ET AL., <i>System R: An architectural Overview</i> , Reprinted from IBM Systems Journal Vol. 20, no. 1, 1981©1981, 1999	
	54	BORENSTEIN, NATHANIEL S., <i>CMU's Andrew project a retrospective</i> , Communications of ACM, (39)12, December 1996	
	55	BROWN, MARK R. ET AL., <i>The Alpine file system</i> , ACM Transactions on Computing Systems, 3(4):261--293, November 1985	
	56	CHEN, PETER M., ET AL., <i>An Evaluation of Redundant Arrays of Disks Using an Amdahl 5890</i> Performance Evaluation, pp. 74-85, 1990	
	57	CHUTANI, SAILESH, ET AL., <i>The Episode file system</i> , In Proceedings of the USENIX Winter 1992	
	58	CLARK, B.E., ET AL., <i>Application System /400 Performance Characteristics</i> , IBM Systems Journal, 28(3): 407-423, 1989	
	59	Data Sheet for the Check Point Software Technologies product Flood-Gate-1 (1997)	
	60	DIBBLE, PETER C., ET AL., <i>Beyond Striping: The Bridge Multiprocessor File System</i> , Computer Science Department, University of Rochester, Aug. 11, 1989	
	61	DOUGLIS, FRED, ET AL., <i>A comparison of two distributed systems: Amoeba and Sprite</i> - Computing Systems, 4(4), Fall 1991, pp. 353-385 ?(copy of article I have has no date or cite)	
	62	GAIT, JASON, <i>Phoenix: A Safe In-Memory File System</i> , Communications of the ACM, 33(1):81--86, January 1990	
	63	HARTMAN, JOHN H. ET AL., <i>Performance Measurements of a Multiprocessor Sprite Kernel</i> , Proceedings of the USENIX Conference, 1990	

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Sheet 6 of 12

## Complete if Known

Application Number	10/777,978
Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
Attorney Docket Number	112056-0138U

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	64	HITZ, DAVE ET AL., <i>File System Design for an NFS File Server Appliance</i> , Technical Report 3002, Rev. C395, presented Jan. 19, 1994, pp. 1-23	
	65	HITZ, DAVID, ET AL. <i>System and Method for Enabling a Storage System to Support Multiple Volume Formats Simultaneously</i> , USPTO Provisional Patent Application Serial No. 60/652,626. 02-14-2005	
	66	HOWARD, JOHN H, ET AL. <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, Aug. 5, 1987	
	67	HOWARD, JOHN, H. ET AL., <i>Scale and performance in a distributed file system</i> , ACM Trans. Computer. System., 6(1), Feb. 1988 pp. 51-81	
	68	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062	
	69	<i>The IBM System/38</i> , Chapter 8, pp. 137-15	
	70	ISOMAKI, MARKUS, <i>Differentiated Service for the Internet</i> , Department of Technical Physics and Mathematics, May 9, 1998	
	71	KAZAR, MICHAEL L., ET AL., <i>Decorum File System Architectural Overview</i> , USENIX Summer Conference, Anaheim, California, 1990	
	72	LOMET, DAVID., ET AL., <i>The performance of a multiversion access method</i> , ACM SIGMOD International Conference on Management of Data, 19:353-363	
	73	LORIE, RAYMOND, A. <i>Physical integrity in a large segmented database</i> , ACM Trans. Database Systems, (2)1: 91-104, March 1977	
	74	LORIE, RA, <i>Shadow Page Mechanism</i> , IBM Technical Disclosure Bulletin, June 1986, pp. 340-342	
	75	MCKUSICK, MARSHALL KIRK, ET AL., <i>A Fast File System for UNIX</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, Feb. 18, 1994	
	76	MILLER, ETHAN L., ET AL., <i>RAMA: A File System for Massively Parallel Computers</i> , 12 <sup>th</sup> IEEE Symposium on Mass Storage Systems, Monterey CA, April 1993, pp. 163-168	
	77	MOONS, HERMAN ET AL., <i>Location-Independent Object Invocation in Open Distributed Systems</i> , Autumn 1991 EurOpen Technical Conference and Exhibition, pp. 287-300 (September 16-20, 1991)	

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Examiner Signature	/Etienne Leroux/	Date Considered	09/15/2008
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Sheet 7 of 12

## Complete if Known

Application Number	10/777,978
Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
Attorney Docket Number	112056-0138U

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	78	MORRIS, JAMES H., Et Al, <i>Andrew: A Distributed Personal Computing Environment</i> , Comm. of the ACM, vol. 29, March 1986, pp 184-201	
	79	MULLENDER, SAPE J., ET AL., <i>A distributed file service based on optimistic concurrency control</i> , ACM Symposium on Operating System Principles (Orcas Island, Washington). Published as Operating Systems Review, 19(5):51-62, December 1985	
	80	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
	81	MOONS, HERMAN ET AL., <i>Location-Independent Object Invocation in Open Distributed Systems</i> , Autumn 1991 EurOpen Technical Conference and Exhibition, pp. 287-300 (September 16-20, 1991)	
	82	MORRIS, JAMES H., Et Al, <i>Andrew: A Distributed Personal Computing Environment</i> , Comm. of the ACM, vol. 29, March 1986, pp 184-201	
	83	MULLENDER, SAPE J., ET AL., <i>A distributed file service based on optimistic concurrency control</i> , ACM Symposium on Operating System Principles (Orcas Island, Washington). Published as Operating Systems Review, 19(5):51-62, December 1985	
	84	MULLER, KEITH, ET AL., <i>A High Performance Multi-Structured File System Design</i> , In Proceedings of the 13th ACM Symposium on Operating Systems Principles, October 1991, pp. 56-67	
	85	OSTERHOUT, JOHN K. ET AL., <i>The Sprite Network Operating System</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkeley, Nov. 19, 1987	
	86	OSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988	
	87	OSTERHOUT, JOHN, <i>Why Aren't Operating Systems Getting Faster as Fast as Hardware?</i> , Digital WRL Technical Note TN-11, October 1989	
	88	OSTERHOUT, JOHN, <i>A Brief Retrospective On The Sprite Network Operating System</i> , found at <a href="http://www.cs.berkeley.edu/projects/sprite/rais/objective.html">http://www.cs.berkeley.edu/projects/sprite/rais/objective.html</a> visited on 3/17/2005	
	89	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley (1987)	
	90	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD 17(3):109-16 (Sept. 1988)	
	91	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master of Science in Computer Science Thesis, September 2002	

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Sheet 8 of 12

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Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
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	92	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 (1991)	
	93	Redundant Array of Independent Disks, from Wikipedia, the free encyclopedia, found at <a href="http://en.wikipedia.org/wiki/RAID">http://en.wikipedia.org/wiki/RAID</a> , visited on 3/9/2005	
	94	ROSENBERG, J., ET AL., <i>Stability in a Persistent Store Based on a Large Virtual Memory</i> , In Security and Persistence, Rosenber, J. & Keedy, J.L. (ed), Springer-Verlag (1990) pp 229-245	
	95	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engin. And Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990	
	96	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.	
	97	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> , In Proceedings of ACM Transactions on Computer Systems, (10)1:26-52, February 1992	
	98	SANDBERG, RUSSEL ET AL., <i>Design and implementation of the Sun Network Filesystem</i> . In Proc. Summer 1985 USENIX Conf., pages 119-130, Portland OR (USA), June 1985	
	99	SANTRY, DOUGLAS S., ET AL., <i>Deciding When to Forget in the Elephant File System</i> , Operating Systems Review, 34(5), (Dec. 1999) pp.110-123	
	100	SATYANARAYANAN, M., ET AL., <i>The ITC Distributed File System: Principles and Design</i> , In Proceedings of the 10th ACM Symposium on Operating Systems Principles, (19)5:56-67, December 1985	
	101	SATYANARAYANAN, M., <i>A survey of distributed file-systems</i> . Annual Review of Computing Science, 4(73--104), 1989	
	102	SATYANARAYANAN, M., ET AL., <i>Coda: A highly available file system for a distributed workstation environment</i> Carnegie Mellon University, CMU-ITC	
	103	SATYANARAYANAN, M., ET AL., <i>Coda: A highly available file system for a distributed workstation environment</i> . IEEE Transactions on Computers, 39(4):447-459, 1990	
	104	SATYANARAYANAN, MAHADEV, <i>Scalable, Secure, and Highly Available Distributed File Access</i> , Computer May 1990: 9-21	
	105	SIDEBOTHAM, BOB, <i>Volumes: The Andrew File System Data Structuring Primitive</i> , EEUOG Conference Proceedings, Manchester, UK, Autumn 1986	

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Sheet	9	of	12	Attorney Docket Number	112056-0138U

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	107	WELCH, BRENT B., ET AL., <i>Pseudo Devices: User-Level Extensions to the Sprite File System</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkeley, April 1988	
	108	WELCH, BRENT B., ET AL., <i>Pseudo-File-Systems</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkeley, Oct. 1989	
	109	WITTE, MARK, ET AL., <i>LADDIS: The next generation in NFS file server benchmarking</i> , USENIX Association Conference Proceedings, April 1993.	
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Examiner Signature	/Etienne Leroux/	Date Considered	09/15/2008
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 10

of 12

**Complete if Known**

Application Number	10/777,978
Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
Attorney Docket Number	112056-0138U

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	110	AKYUREK, SEDAT, <i>Placing Replicated Data to Reduce Seek Delays</i> , Department of Computer Science, University of Maryland, UMIACS-TR-91-121, CS-TR-2746, August 1991.	
	111	BITTON, DINA, <i>Disk Shadowing</i> , Proceedings of the 14 <sup>th</sup> VLDB Conference, LA, CA 1988.	
	112	CHAUDHURI, SURAJIT, ET AL., <i>Self-Tuning Technology in Microsoft SQL Server</i> , Data Engineering Journal 22, 2 1999 pp. 20-27.	
	113	CHUTANI, SAILESH, ET AL., <i>The Episode File System</i> , In Proceedings of the USENIX Winter 1992.	
	114	COYNE, ROBERT A., ET AL., <i>Storage Systems for National Information Assets</i> , Proc. Supercomputing 92, Minneapolis, Nov. 1992, pp. 626-633.	
	115	FINLAYSON, ROSS S., ET AL., <i>Log Files: An Extended File Service Exploiting Write-Once Storage</i> Department of Computer Science, Stanford University, Report No. STAN-CS-87-1177, September 1987.	
	116	GRAY, JIM, ET AL., <i>The Recovery Manager of the System R Database Manager</i> , ACM Computing Surveys, (13)2:223-242 1981.	
	117	HECHT, MATTHEW S., ET AL., <i>Shadowed Management of Free Disk Pages with a Linked List</i> , ACM Transactions on Database Systems, 8/4, December 1983, pp. 503-514.	
	118	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , Carnegie Mellon University, CMU-ITC-87-068, August 1987.	
	119	HOWARD, JOHN H., <i>An Overview of the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-062 1988.	
	120	HOWARD, JOHN, H. ET AL., <i>Scale and Performance in a Distributed File System</i> , ACM Trans. Computer System, 6(1), Feb. 1988 pp. 51-81.	
	121	KAZAR, MICHAEL LEON, <i>Synchronization and Caching Issues in the Andrew File System</i> , Carnegie Mellon University, CMU-ITC-88-063.	
	122	KAZAR, MICHAEL L., ET AL., <i>DEcorum File System Architectural Overview</i> , USENIX Summer Conference, Anaheim, California, 1990.	

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Sheet 11

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Filing Date	February 12, 2004
First Named Inventor	Stephen L. Manley
Group Art Unit	2161
Examiner Name	Leroux, Etienne Pierre
Attorney Docket Number	112056-0138U

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	123	KEMPER, ALFONS, ET AL., <i>Performance Tuning for SAP R/3</i> , Data Engineering Journal 22, 2 1999 pp. 33-40.	
	124	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , IEEE Transactions on Software Engineering, 14(2): 155-168, February 1988.	
	125	KISTLER, ET AL., <i>Disconnected Operation in the Coda File System</i> , ACM Transactions on Computer Systems, Vol. 10, No. 1, February 1992, pp 3-25.	
	126	LORIE, RAYMOND, A. <i>Physical Integrity in a Large Segmented Database</i> , ACM Trans. Database Syst., vol. 2, March 1977, pp. 91-104.	
	127	OSTERHOUT, JOHN ET AL., <i>Beating the I/O Bottleneck: A Case for Log-Structured File Systems</i> , Technical Report, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley, October 30, 1988.	
	128	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , Technical Report, CSD-87-391, Computer Science Division, Electrical Engineering and Computer Sciences, University of California at Berkeley 1987.	
	129	PATTERSON, D., ET AL., <i>A Case for Redundant Arrays of Inexpensive Disks (RAID)</i> , SIGMOD International Conference on Management of Data, Chicago, IL, USA, 1-3 June 1988, SIGMOD RECORD (17)3:109-16 Sept. 1988.	
	130	PETERSON, ZACHARY NATHANIEL JOSEPH, <i>Data Placement for Copy-on-Write Using Virtual Contiguity</i> , University of CA, Santa Cruz, Master's Thesis for the Department of Science in Computer Science, September 2002.	
	131	QUINLAN, SEAN, <i>A Cached WORM File System</i> , Software-Practice and Experience, 21(12):1289-1299 1991.	
	132	ROSENBLUM, MENDEL, ET AL., <i>The LFS Storage Manager</i> , Computer Science Division, Electrical Engineering and Computer Sciences, Univ. of CA, presented at Summer '90 USENIX Technical Conference, Anaheim, CA June 1990.	
	133	ROSENBLUM, MENDEL, ET AL. <i>The Design and Implementation of a Log-Structured File System</i> July 24, 1991 pp1-15.	
	134	ROSENBLUM, MENDEL, <i>The Design and Implementation of a Log-Structured File System</i> , 1992 pp. 1-93.	
	135	ROSENBLUM, MENDEL, ET AL., <i>The Design and Implementation of a Log-Structured File System</i> , in Proceedings of ACM Transactions on Computer Systems, (10)1:26-52, February 1992.	

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Examiner  
Signature

/Etienne Leroux/

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	12
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Of 12

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Application Number	10/777,978
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Filing Date	February 12, 2004
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First Named Inventor	Stephen L. Manley
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Group Art Unit	2161
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Examiner Name	Leroux, Etienne Pierre
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Attorney Docket Number	112056-0138U
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Examiner  
Signature

/Etienne Leroux/

Date \_\_\_\_\_

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09/15/2008

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